

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s protease inhibitor (A) multifunctional

32181 PROTEASE  
89859 INHIBITOR  
5809 PROTEASE INHIBITOR  
(PROTEASE(W) INHIBITOR)  
16297 MULTIFUNCTIONAL

L14 0 PROTEASE INHIBITOR (A) MULTIFUNCTIONAL

=> s protease inhibitor

32181 PROTEASE  
89859 INHIBITOR

L15 5809 PROTEASE INHIBITOR  
(PROTEASE(W) INHIBITOR)

=> s L15 (A) fusion protein

85779 FUSION  
141529 PROTEIN  
20559 FUSION PROTEIN  
(FUSION(W) PROTEIN)

L16 0 L15 (A) FUSION PROTEIN

=> s multifunctional (A) protease inhibitor

16297 MULTIFUNCTIONAL  
19 PROTESE  
89859 INHIBITOR  
0 PROTESE INHIBITOR  
(PROTESE(W) INHIBITOR)

L17 0 MULTIFUNCTIONAL (A) PROTESE INHIBITOR

=> d his

(FILE 'HOME' ENTERED AT 18:41:21 ON 31 MAY 2003)

FILE 'CAPLUS' ENTERED AT 18:41:41 ON 31 MAY 2003

L1 1 S FUSION PROTEASE INHIBITOR  
L2 7 S PROTEASE INHIBITOR (A) FUSION

FILE 'USPATFULL, EUROPATFULL' ENTERED AT 18:52:12 ON 31 MAY 2003

L3 1 S L2  
L4 0 S MULTIFUNCTIONAL PROTEASE INHIBITOR

FILE 'JAPIO, PATOSWO' ENTERED AT 18:54:30 ON 31 MAY 2003

L5 0 S L2

FILE 'CANCERLIT' ENTERED AT 18:56:25 ON 31 MAY 2003

L6 0 S FUSION PROTEASE INHIBITOR  
L7 0 S FUSION PROTEASE INHIBITOR

FILE 'USPATFULL, EUROPATFULL' ENTERED AT 18:57:54 ON 31 MAY 2003

L8 23898 S FUSION PROTEIN  
L9 27 S L8 AND PROTEASE INHIBITOR ACTIVITY

FILE 'EMBASE' ENTERED AT 19:07:13 ON 31 MAY 2003

L10 1 S L2  
E BARR P J/AU 25  
L11 73 S (E3) AND 1990<=PY<=2003

L12 E PEMBERTON P/AU 25  
13 S (E3) AND 1990<=PY<=2003

FILE 'STNGUIDE' ENTERED AT 19:21:34 ON 31 MAY 2003

FILE 'EMBASE' ENTERED AT 19:22:57 ON 31 MAY 2003  
E PEMBERTON P/AU 25

L13 13 S (E3) AND 1990<=PY<=2003

FILE 'USPATFULL' ENTERED AT 19:29:04 ON 31 MAY 2003

L14 0 S PROTEASE INHIBITOR (A) MULTIFUNCTIONAL  
L15 5809 S PROTEASE INHIBITOR  
L16 0 S L15 (A) FUSION PROTEIN  
L17 0 S MULTIFUNCTIONAL (A) PROTESE INHIBITOR

L3 ANSWER 1 OF 1 USPATFULL  
AN 2003:106306 USPATFULL  
TI Multifunctional protease inhibitors and their use in treatment of  
disease  
IN Barr, Philip J., Oakland, CA, UNITED STATES  
Gibson, Helen, Oakland, CA, UNITED STATES  
Pemberton, Philip, San Francisco, CA, UNITED STATES  
PI US 2003073217 A1 20030417  
AI US 2001-25514 A1 20011218 (10)  
PRAI US 2000-256699P 20001218 (60)  
US 2001-331966P 20011120 (60)  
DT Utility  
FS APPLICATION  
LN.CNT 3252  
INCL INCLM: 435/184.000  
INCLS: 435/069.700; 435/320.100; 435/325.000; 536/023.200  
NCL NCLM: 435/184.000  
NCLS: 435/069.700; 435/320.100; 435/325.000; 536/023.200  
IC [7]  
ICM: C12N009-99  
ICS: C07H021-04; C12P021-04; C12N005-06  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 73 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 96219791 EMBASE

DOCUMENT NUMBER: 1996219791

TITLE: Functional implications of the modeled structure of maspin.

AUTHOR: Fitzpatrick P.A.; Twong D.T.; Barr P.J.; Pemberton P.A.

CORPORATE SOURCE: LXR Biotechnology, 1401 Marina Way South, Richmond, CA 94804, United States

SOURCE: Protein Engineering, (1996) 9/7 (585-589).

ISSN: 0269-2139 CODEN: PRENE

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 016 Cancer

029 Clinical Biochemistry

LANGUAGE: English

SUMMARY LANGUAGE: English

AB The tumor suppressor maspin (mammary-specific serpin) is an unstable serpin that does not undergo the stressed to relaxed transition typical of

proteinase inhibitory serpins and, consequently, is not likely to function

as a serine proteinase inhibitor. This suggests that the positioning and configuration of the reactive site loop (RSL) of maspin are likely to resemble those of ovalbumin, the best studied non-inhibitory serpin. Accordingly, the tertiary structure of maspin has been modeled on the crystal structure of native ovalbumin. Biochemical data and the modeled theoretical structure of maspin reveal the absence of disulfide bonds in the molecule and the presence of an unstable RSL that adopts a distorted helical structure. We confirm that the RSL is extremely sensitive to limited proteolysis and suggest that this may provide a structural basis for the proteolytic inactivation of maspin, a process that is likely to modulate the activity of maspin in biological systems.

L12 ANSWER 13 OF 13 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.  
ACCESSION NUMBER: 90365271 EMBASE  
DOCUMENT NUMBER: 1990365271  
TITLE: Increased proteolytic cleavage of .alpha.1-antitrypsin  
(.alpha.1-proteinase inhibitor) in knee-joint synovial  
fluid from patients with rheumatoid arthritis.  
AUTHOR: Zhang Z.; Winyard P.G.; Chidwick K.; Farrell A.;  
Pemberton P.; Carrell R.W.; Blake D.R.  
CORPORATE SOURCE: Inflammation Group, London Hospital, Medical College,  
25-29  
Ashfield Street, London E1 1AD, United Kingdom  
SOURCE: Biochemical Society Transactions, (1990) 18/5 (898-899).  
ISSN: 0300-5127 CODEN: BCSTB5  
COUNTRY: United Kingdom  
DOCUMENT TYPE: Journal; Conference Article  
FILE SEGMENT: 029 Clinical Biochemistry  
031 Arthritis and Rheumatism  
LANGUAGE: English

## ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS

AN 2002:487756 CAPLUS

DN 137:57557

TI Fusion proteins of protease inhibitors and their use in treatment of inflammatory disease

IN Barr, Philip J.; Gibson, Helen L.; Pemberton, Philip

PA Arriva Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002050287	A2	20020627	WO 2001-US49256	20011218
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002041661	A5	20020701	AU 2002-41661	20011218
PRAI US 2000-256699P	P	20001218		
US 2001-331966P	P	20011120		
WO 2001-US49256	W	20011218		

## L7 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS

AN 2001:396692 CAPLUS

DN 135:24647

TI Antiarthritic conjugates of a collagen II-binding chondroadherin fragment and an arthritis-affecting pharmaceutical substance

IN Heinegard, Dick

PA Anamar Medical Ab, Swed.

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001037861	A1	20010531	WO 2000-SE2293	20001122
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1237568	A1	20020911	EP 2000-980190	20001122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI SE 1999-4237	A	19991122		
WO 2000-SE2293	W	20001122		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS  
 AN 2000:381472 CAPLUS  
 DN 133:3719  
 TI Antibody fusion proteins for targeting apical epithelium  
 IN Davis, Pamela B.; Ferkol, Thomas; Eckman, Elizabeth; Schreiber, John;  
 Luk, John M.  
 PA Case Western Reserve University, USA  
 SO U.S., 24 pp., Cont.-in-part of U.S. 655,705.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6072041	A	20000606	US 1997-957333	19971024
	US 5972900	A	19991026	US 1996-655705	19960603
	US 5972901	A	19991026	US 1996-656906	19960603
	US 6261787	B1	20010717	US 1999-264032	19990308
	US 6287817	B1	20010911	US 2000-559393	20000426
PRAI	US 1996-655705	A2	19960603		
	US 1996-656906	A2	19960603		
	US 1994-216534	B2	19940323		
	WO 1995-US3677	A1	19950323		
	US 1997-957333	A2	19971024		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)  
 AN 1999:307366 SCISEARCH  
 GA The Genuine Article (R) Number: 186VV  
 TI Metastability in the inhibitory mechanism of human **alpha(1)-antitrypsin**  
 AU Im H; Seo E J; Yu M H (Reprint)  
 CS KOREA RES INST BIOSCI & BIOTECHNOL, NATL CREAT RES INITIAT CTR, POB 115,  
 TAEJON 305600, SOUTH KOREA (Reprint); KOREA RES INST BIOSCI & BIOTECHNOL,  
 NATL CREAT RES INITIAT CTR, TAEJON 305600, SOUTH KOREA  
 CYA SOUTH KOREA  
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (16 APR 1999) Vol. 274, No. 16, pp.  
 11072-11077.  
 Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE  
 PIKE, BETHESDA, MD 20814.  
 ISSN: 0021-9258.  
 DT Article; Journal  
 FS LIFE  
 LA English  
 REC Reference Count: 45  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L7 ANSWER 5 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)  
 AN 97:641999 SCISEARCH  
 GA The Genuine Article (R) Number: XT084  
 TI A multifunctional protein: involvement of the alpha-1 serum  
**protease inhibitor** in SDS and high salt-stable  
 DNA-protein complexes  
 AU Glaser T; Rothbarth K; Stammer H; Kempf T; Spiess E; Werner D (Reprint)  
 CS GERMAN CANC RES CTR, DIV BIOCHEM CELL 0225, NEUENHEIMER FELD 280, D-69120  
 HEIDELBERG, GERMANY (Reprint); GERMAN CANC RES CTR, DIV BIOCHEM CELL  
 0225,

D-69120 HEIDELBERG, GERMANY; GERMAN CANC RES CTR, PROT SEQUENCE ANAL UNIT  
0232, D-69120 HEIDELBERG, GERMANY; GERMAN CANC RES CTR, BIOMED  
ULTRASTRUCT  
RES UNIT 0195, D-69120 HEIDELBERG, GERMANY  
CYA GERMANY  
SO FEBS LETTERS, (11 AUG 1997) Vol. 413, No. 1, pp. 50-54.  
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,  
NETHERLANDS.  
ISSN: 0014-5793.  
DT Article; Journal  
FS LIFE  
LA English  
REC Reference Count: 17  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L7 ANSWER 6 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)  
AN 94:766564 SCISEARCH  
GA The Genuine Article (R) Number: PV510  
TI PRODUCTION, PURIFICATION, AND CHARACTERIZATION OF RECOMBINANT MASPIN  
PROTEINS  
AU SHENG S J; PEMBERTON P A; SAGER R (Reprint)  
CS LXR BIOTECHNOL INC, RICHMOND, CA, 94804 (Reprint); LXR BIOTECHNOL INC,  
RICHMOND, CA, 94804; HARVARD UNIV, SCH MED, DANA FARBER CANC INST, DIV  
CANC GENET, BOSTON, MA, 02115  
CYA USA  
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (09 DEC 1994) Vol. 269, No. 49, pp.  
30988-30993.  
ISSN: 0021-9258.  
DT Article; Journal  
FS LIFE  
LA ENGLISH  
REC Reference Count: 20  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L7 ANSWER 7 OF 8 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
AN 97251077 EMBASE  
DN 1997251077  
TI A multifunctional protein: Involvement of the alpha-1 serum  
**protease inhibitor** in SDS and high salt-stable  
DNA-protein complexes.  
AU Glaser T.; Rothbarth K.; Stammer H.; Kempf T.; Spiess E.; Werner D.  
CS D. Werner, Div. Biochemistry of the Cell (0225), German Cancer Research  
Center, Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany.  
werner@dkfz-heidelberg.de  
SO FEBS Letters, (1997) 413/1 (50-54).  
Refs: 17  
ISSN: 0014-5793 CODEN: FEBLAL  
PUI S 0014-5793(97)00876-4  
CY Netherlands  
DT Journal; Article  
FS 029 Clinical Biochemistry  
LA English  
SL English

L7 ANSWER 8 OF 8 CANCERLIT  
AN 97431610 CANCERLIT  
DN 97431610 PubMed ID: 9287115  
TI A multifunctional protein: involvement of the alpha-1 serum  
**protease inhibitor** in SDS and high salt-stable  
DNA-protein complexes.

21  
15  
13  
11  
10  
9

AU Glaser T; Rothbarth K; Stammer H; Kempf T; Spiess E; Werner D  
CS Division Biochemistry of the Cell (0225), German Cancer Research Center,  
Heidelberg.  
SO FEBS LETTERS, (1997 Aug 11) 413 (1) 50-4.  
Journal code: 0155157. ISSN: 0014-5793.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS MEDLINE; Priority Journals  
OS MEDLINE 97431610  
EM 199710  
ED Entered STN: 19971217  
Last Updated on STN: 19971217

=>